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Task 5 : Veritabanında yeni bir tablo oluşturun. Bu tablo String tipinde iki farklı attribute'a sahip olsun. Bu alanlar tek başına unique değilken, ikisi bir araya gelince unique olsun. (1. alan x 2. alan y olan bir veri mevcut ise xy şeklinde yeni bir veri oluşamaz, ancak yx şeklinde oluşabilir) Bu tablo için DAO ve Service yazın.

1-İlk olarak avansascore-items.xml’de yeni ve bağımsız bir tablo oluşturmamız için TrainingProduct adına bir itemtype ekliyoruz ve ant clean all build yaptığımız’da modelimiz oluşuyor.

```
<!-- Task 5 second table -->
<itemtype code="TrainingProduct" jaloclass="com.avansas.core.jalo.TrainingProduct">
  <deployment table="TrainingProduct" typecode="28676"/>
  <attributes>
    <attribute qualifier="productName" type="java.lang.String">
      <persistence type="property" />
      <modifiers optional="false" initial="true"/>
      <description>product name</description>
    </attribute>
    <attribute qualifier="companyName" type="java.lang.String">
      <persistence type="property" />
      <modifiers optional="false" initial="true"/>
      <description>company name</description>
    </attribute>
  </attributes>
  <indexes>
    <index name="TrainingProductIdx" unique="true">
      <key attribute="productName" />
      <key attribute="companyName" />
    </index>
  </indexes>
</itemtype>
```

Burda index’e 2 attributlerimiz ekleyerek ikisi unique sayacaktır.

```

import com.avansas.core.model.Vocabulary;
import com.avansas.core.model.ItemModelContext;

// Generated model class for type TrainingProduct first defined at extension avansascore.
@SuppressWarnings("all")
public class TrainingProductModel extends ItemModel
{
    // Generated model type code constant.
    public final static String _TYPECODE = "TrainingProduct";

    // Generated constant - Attribute key of TrainingProduct.productName attribute defined at extension avansascore.
    public static final String PRODUCTNAME = "productName";

    // Generated constant - Attribute key of TrainingProduct.companyName attribute defined at extension avansascore.
    public static final String COMPANYNAME = "companyName";

    // Generated constructor - Default constructor for generic creation.
    public TrainingProductModel()
    {
        super();
    }

    // Generated constructor - Default constructor for creation with existing context
    // Params: ctx - the model context to be injected, must not be null
    public TrainingProductModel(final ItemModelContext ctx)
    {
        super(ctx);
    }

    // Generated constructor - Constructor with all mandatory attributes
}

```

2-avansas – daos 'ta TrainingProductDoa adına bir interface yapıyoruz ve TrainingProductDaoImp diye onun implementasyon sınıfı yapıyoruz.

```

package com.avansas.core.daos;

import com.avansas.core.model.TrainingProductModel;

4 usages 1 implementation
public interface TrainingProductDao {
    1 usage 1 implementation
    TrainingProductModel findEntryByFields(String productName,String companyName);
    1 usage 1 implementation
    void saveTrainingProduct(TrainingProductModel entry);
}

```

```

sascore-items.xml x TrainingProductModel.java x TrainingProductDao.java x TrainingProductDaoImp.java x TrainingF
import de.hybris.platform.servicelayer.search.FlexibleSearchService;

import javax.annotation.Resource;
import java.util.HashMap;
import java.util.Map;

no usages
public class TrainingProductDaoImp implements TrainingProductDao {

    1 usage
    @Resource
    ModelService modelService;

    1 usage
    @Resource
    FlexibleSearchService flexibleSearchService;

    1 usage
    @Override
    public TrainingProductModel findEntryByFields(String productName, String companyName) {
        final String query = "SELECT {pk} FROM {TrainingProduct} WHERE {productName} = ?productName AND {companyN
        final Map<String , Object> queryParams = new HashMap<>();
        queryParams.put("productName",productName);
        queryParams.put("companyName",companyName);
        final FlexibleSearchQuery fsq = new FlexibleSearchQuery(query,queryParams);

        return flexibleSearchService.searchUnique(fsq);
    }

    1 usage
    @Override
    public void saveTrainingProduct(TrainingProductModel entry) {
        modelService.save(entry);
    }
}

```

TrainingProductDaoImp’da ModelService ve FlexibleSearchService inject ediyoruz

Sonra finEntryByField ile sql query’lerimizle parametrelere dayanarak belirli bir productName ve companyName kombinasyonuna eşleşen TrainingProduct satırlarının birincil anahtar değerlerini alıyoruz ve placeholder’leri değer atmak için map kullanıyoruz.

Sonunda searchUnique() kullanarak queryleri run edip tek bir nesne donduruyoruz bulamazsa null dondurur.

Save methodu ile modelService’si kullanarak kayıt ediyoruz parametreden aldığımız nesneyi.

3- Service ve service implementation yapıyoruz .

```
TrainingProductModel.java x TrainingProductDao.java x TrainingProductDaoImp.java x TrainingProductService.java x
1 package com.avansas.core.services;
2
3 import com.avansas.core.model.TrainingProductModel;
4
5 2 usages 1 implementation
6 public interface TrainingProductService {
7
8     no usages 1 implementation
9     TrainingProductModel findOrCreate(String productName , String companyName);
10
11 }

package com.avansas.core.services.impl;
import com.avansas.core.daos.TrainingProductDao;
import com.avansas.core.model.TrainingProductModel;
import com.avansas.core.services.TrainingProductService;
import org.springframework.beans.factory.annotation.Autowired;

no usages
public class TrainingProductServiceImp implements TrainingProductService {

    2 usages
    @Autowired
    TrainingProductDao trainingProductDao;

    no usages
    @Override
    public TrainingProductModel findOrCreate(String productName, String companyName) {
        TrainingProductModel model = trainingProductDao.findEntryByFields(productName, companyName);
        if (model == null) {
            model = new TrainingProductModel();
            model.setProductName(productName);
            model.setCompanyName(companyName);
            trainingProductDao.saveTrainingProduct(model);
        }

        return model;
    }
}
```

Doa'muzu inject ediyoruz.

Ve doa'daki findEntry fonksiyonumuzu çağırıp modele set ediyoruz
model null ise yeni bir model ekleyip save ediyoruz . Null değilse ayna
modeli return ediyoruz.

Sonra Update system yapıp ayağa kaldırıyoruz.

Denemeler :

TrainingProduct.companyName	PK	TrainingProduct.productName
apple	8796093444100	mouse
casper	8796093345796	computer
apple	8796093313028	computer

Ayna productName ya da companyName ekleyebiliyoruz .

TrainingProduct.companyName

PK

TrainingProduct.productName

apple	8796093444100	mouse
casper		
apple		

Create New TrainingProduct

Unable to create: Org.springframework.dao.DuplicateKeyException: query: SQL []. Cannot insert duplicate key row in object 'dbo.trainingproduct' with unique index 'TrainingProductidx_28676'. The duplicate key value is (mouse, apple); nested exception is com.microsoft.sqlserver.jdbc.SQLServerException: Cannot insert duplicate key row in object 'dbo.trainingproduct' with unique index 'TrainingProductidx_28676'. The duplicate key value is (mouse, apple).

PROVIDE ALL MANDATORY FIELDS

[productName]:

mouse

Time created:

Owner:

[companyName]:

apple

No items sele

Ama ikisi bir araya gelince unique belirlediğimiz için kabul edilmemektedir.